

Table 1. 2010 Summary Statistics

Item	Value	U.S. Rank
California		
NERC Region(s).....		SPP/WECC
Primary Energy Source.....		Gas
Net Summer Capacity (megawatts)	67,328	2
Electric Utilities	28,689	2
Independent Power Producers & Combined Heat and Power.....	38,639	4
Net Generation (megawatthours).....	204,125,596	4
Electric Utilities	96,939,535	8
Independent Power Producers & Combined Heat and Power.....	107,186,061	4
Emissions (thousand metric tons)		
Sulfur Dioxide	3	47
Nitrogen Oxide	80	9
Carbon Dioxide.....	55,406	16
Sulfur Dioxide (lbs/MWh)	*	49
Nitrogen Oxide (lbs/MWh)	0.9	41
Carbon Dioxide (lbs/MWh).....	598	46
Total Retail Sales (megawatthours)	258,525,414	2
Full Service Provider Sales (megawatthours)	240,948,673	2
Energy-Only Provider Sales (megawatthours).....	17,576,741	8
Direct Use (megawatthours)	10,073,764	3
Average Retail Price (cents/kWh).....	13.01	11

MWh = Megawatthours.

kWh = Kilowatthours.

* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is 1 and values under 0.5 are shown as *).

Sources: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

Table 2. Ten Largest Plants by Generating Capacity, 2010

Plant	Primary Energy Source or Technology	Operating Company	Net Summer Capacity (MW)
California			
1. Moss Landing Power Plant.....	Gas	Dynegy -Moss Landing LLC	2,529
2. Diablo Canyon	Nuclear	Pacific Gas & Electric Co	2,240
3. San Onofre.....	Nuclear	Southern California Edison Co	2,150
4. AES Alamos LLC	Gas	AES Alamos LLC	1,997
5. Castaic	Pumped Storage	Los Angeles City of	1,620
6. Haynes	Gas	Los Angeles City of	1,524
7. Ormond Beach	Gas	RRI Energy Ormond Bch LLC	1,516
8. Pittsburg Power.....	Gas	Mirant Delta LLC	1,311
9. AES Redondo Beach LLC.....	Gas	AES Redondo Beach LLC	1,310
10. Helms Pumped Storage	Pumped Storage	Pacific Gas & Electric Co	1,212

MW = Megawatt.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

Table 3. Top Five Retailers of Electricity, with End Use Sectors, 2010
(Megawatthours)

Entity	Type of Provider	All Sectors	Residential	Commercial	Industrial	Transportation
California						
1. Pacific Gas & Electric Co.....	Investor-Owned	84,045,146	30,744,336	38,885,857	14,414,953	-
2. Southern California Edison Co.....	Investor-Owned	75,597,423	28,960,709	38,650,369	7,921,618	64,727
3. Los Angeles City of.....	Public	22,939,709	7,165,691	13,493,111	2,139,427	141,480
4. San Diego Gas & Electric Co.....	Investor-Owned	16,282,664	7,304,159	6,747,908	2,131,425	99,172
5. Sacramento Municipal Util Dist.....	Public	10,284,810	4,490,357	645,424	5,108,162	40,867
Total Sales, Top Five Providers		209,149,752	78,665,252	98,422,669	31,715,585	346,246
Percent of Total State Sales		81	90	81	64	42

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

Table 4. Electric Power Net Summer Capacity by Primary Energy Source and Industry Sector, 2000 and 2004 Through 2010
(Megawatts)

Energy Source	2000	2004	2005	2006	2007	2008	2009	2010	Percentage Share	
									2000	2010
California										
Electric Utilities.....	24,319	23,867	25,248	26,346	26,334	26,467	28,021	28,689	46.5	42.6
Petroleum.....	526	297	297	245	226	222	204	174	1.0	0.3
Natural Gas	5,670	5,567	6,850	7,917	8,188	8,134	9,629	10,333	10.8	15.3
Nuclear.....	4,310	4,324	4,324	4,390	4,390	4,390	4,390	4,390	8.2	6.5
Hydroelectric	9,835	9,840	9,849	9,844	9,505	9,587	9,608	9,600	18.8	14.3
Other Renewables ¹	248	150	240	261	337	321	377	379	0.5	0.6
Pumped Storage.....	3,730	3,688	3,688	3,688	3,688	3,813	3,813	3,813	7.1	5.7
Independent Power Producers and Combined Heat and Power	27,989	34,440	36,460	36,867	37,479	37,638	37,927	38,639	53.5	57.4
Coal.....	407	389	389	389	389	367	367	374	0.8	0.6
Petroleum.....	460	541	543	544	528	530	530	527	0.9	0.8
Natural Gas	21,015	27,871	29,850	30,084	30,368	30,501	30,517	31,037	40.2	46.1
Other Gases ²	395	235	191	171	262	197	197	209	0.8	0.3
Hydroelectric	476	238	239	239	536	535	535	540	0.9	0.8
Other Renewables ¹	5,232	5,158	5,240	5,431	5,397	5,501	5,775	5,941	10.0	8.8
Other ³	4	8	8	8	-	7	7	11	*	*
Total Electric Industry	52,308	58,306	61,707	63,213	63,813	64,105	65,948	67,328	100.0	100.0
Coal.....	407	389	389	389	389	367	367	374	0.8	0.6
Petroleum.....	986	838	840	789	754	752	734	701	1.9	1.0
Natural Gas	26,685	33,438	36,700	38,001	38,556	38,635	40,146	41,370	51.0	61.4
Other Gases ²	395	235	191	171	262	197	197	209	0.8	0.3
Nuclear.....	4,310	4,324	4,324	4,390	4,390	4,390	4,390	4,390	8.2	6.5
Hydroelectric	10,311	10,078	10,088	10,083	10,041	10,122	10,144	10,141	19.7	15.1
Other Renewables ¹	5,480	5,308	5,479	5,693	5,734	5,822	6,152	6,319	10.5	9.4
Pumped Storage.....	3,730	3,688	3,688	3,688	3,688	3,813	3,813	3,813	7.1	5.7
Other ³	4	8	8	8	-	7	7	11	*	*

¹ Other Renewables includes wood, black liquor, other wood waste, municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

² Other gases includes blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

³ Other includes batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies.

* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is 1 and values under 0.5 are shown as *).

- (dash) = Data not available.

Source: U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report."

Table 5. Electric Power Net Generation by Primary Energy Source and Industry Sector, 2000 and 2004 Through 2010
(Megawatthours)

Energy Source	2000	2004	2005	2006	2007	2008	2009	2010	Percentage Share	
									2000	2010
California										
Electric Utilities.....	85,856,285	75,177,122	89,348,213	100,338,454	87,348,589	83,346,844	85,123,706	96,939,535	41.3	47.5
Petroleum.....	144,590	51,482	57,974	58,991	65,296	58,187	50,625	40,819	0.1	*
Natural Gas.....	12,411,961	10,759,580	12,982,348	19,805,412	22,896,497	26,129,803	25,237,449	31,251,994	6.0	15.3
Other Gases ¹	-	-	-	-	-	12,899	60,250	41,963	-	*
Nuclear.....	35,175,505	30,267,887	36,154,898	31,958,621	35,792,490	32,482,351	31,763,804	32,200,757	16.9	15.8
Hydroelectric.....	37,041,641	33,608,686	38,826,653	47,127,134	26,926,661	22,871,073	26,407,034	31,946,754	17.8	15.7
Other Renewables ²	144,648	1,306,318	1,206,547	1,292,159	1,357,866	1,471,268	1,451,695	1,628,513	0.1	0.8
Pumped Storage.....	937,940	-816,831	119,793	96,137	309,779	321,263	152,849	-171,265	0.5	-0.1
Independent Power Producers and Combined Heat and Power.....	122,226,198	119,603,233	110,944,605	116,460,234	123,498,992	124,637,419	119,652,427	107,186,061	58.7	52.5
Coal.....	2,363,607	2,237,808	2,135,375	2,235,342	2,298,306	2,280,401	2,049,947	2,100,221	1.1	1.0
Petroleum.....	2,695,204	2,211,415	2,485,723	2,309,183	2,268,678	1,683,404	1,492,224	1,018,470	1.3	0.5
Natural Gas.....	90,807,012	89,462,653	80,371,501	85,885,704	92,803,974	93,861,934	88,226,006	76,270,319	43.6	37.4
Other Gases ¹	2,687,177	2,065,965	2,279,584	2,022,446	1,818,106	1,671,965	1,562,594	1,652,678	1.3	0.8
Hydroelectric.....	1,292,145	532,244	805,214	920,246	401,090	1,256,736	1,481,002	1,484,116	0.6	0.7
Other Renewables ²	22,359,013	22,664,581	22,447,700	22,623,236	23,487,391	23,312,669	24,087,967	23,821,208	10.7	11.7
Other ³	22,040	428,567	419,508	464,077	421,447	570,311	752,687	839,048	*	0.4
Total Electric Industry.....	208,082,483	194,780,355	200,292,818	216,798,688	210,847,581	207,984,263	204,776,132	204,125,596	100.0	100.0
Coal.....	2,363,607	2,237,808	2,135,375	2,235,342	2,298,306	2,280,401	2,049,947	2,100,221	1.1	1.0
Petroleum.....	2,839,794	2,262,897	2,543,697	2,368,174	2,333,974	1,741,590	1,542,848	1,059,289	1.4	0.5
Natural Gas.....	103,218,973	100,222,233	93,353,849	105,691,116	115,700,470	119,991,737	113,463,455	107,522,313	49.6	52.7
Other Gases ¹	2,687,177	2,065,965	2,279,584	2,022,446	1,818,106	1,684,863	1,622,844	1,694,641	1.3	0.8
Nuclear.....	35,175,505	30,267,887	36,154,898	31,958,621	35,792,490	32,482,351	31,763,804	32,200,757	16.9	15.8
Hydroelectric.....	38,333,786	34,140,929	39,631,867	48,047,380	27,327,751	24,127,810	27,888,036	33,430,870	18.4	16.4
Other Renewables ²	22,503,661	23,970,899	23,654,247	23,915,395	24,845,257	24,783,937	25,539,662	25,449,721	10.8	12.5
Pumped Storage.....	937,940	-816,831	119,793	96,137	309,779	321,263	152,849	-171,265	0.5	-0.1
Other ³	22,040	428,567	419,508	464,077	421,447	570,311	752,687	839,048	*	0.4

¹ Other gases includes blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

² Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.

³ Other includes non-biogenic municipal solid waste, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies.

* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is 1 and values under 0.5 are shown as *).

- (dash) = Data not available.

Note: Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms.

Table 6. Electric Power Delivered Fuel Prices and Quality for Coal, Petroleum, and Natural Gas, 2000 and 2004 Through 2010

Fuel, Quality	2000	2004	2005	2006	2007	2008	2009	2010
California								
Coal (cents per million Btu)	-	188	W	W	W	W	W	305
Average heat value (Btu per pound).....	-	12,205	12,027	12,184	11,868	11,667	11,854	11,927
Average sulfur Content (percent)	-	0.75	0.79	0.86	0.59	0.58	0.62	0.65
Petroleum (cents per million Btu) ¹	619	298	429	494	471	316	221	271
Average heat value (Btu per gallon).....	140,000	134,633	129,557	128,124	125,131	135,064	135,640	136,229
Average sulfur Content (percent)	-	1.19	0.93	0.99	0.97	2.45	2.17	2.38
Natural Gas (cents per million Btu).....	581	589	786	659	659	808	431	485
Average heat value (Btu per cubic foot).....	1,012	1,027	1,025	1,026	1,025	1,026	1,025	1,023

¹ Petroleum includes petroleum liquids and petroleum coke.

Btu = British thermal unit.

W = Withheld to avoid disclosure of individual company data.

- (dash) = Data not available.

Note: Due to different reporting requirements between the Form EIA-923 and historical FERC Form 423, the receipts data from 2008 and on are not directly comparable to prior years. There may be a notable increase in fuel receipts beginning with 2008. For more information, please see the Technical Notes in the Electric Power Annual.

Sources: U.S. Energy Information Administration, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report." Federal Energy Regulatory Commission, FERC Form 423, "Monthly Cost and Quality of Fuels for Electric Plants." U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

Table 7. Electric Power Industry Emissions Estimates, 2000 and 2004 Through 2010
(Thousand Metric Tons)

Emission Type	2000	2004	2005	2006	2007	2008	2009	2010
California								
Sulfur Dioxide								
Coal.....	28	2	3	3	3	1	2	2
Petroleum.....	94	18	21	21	18	1	1	*
Natural Gas	*	*	*	*	*	*	*	*
Other Gases.....	*	*	*	*	*	*	*	*
Other Renewables ¹	2	2	1	2	2	1	*	*
Other ²	2	*	*	*	*	*	*	*
Total	126	22	26	27	23	4	3	3
Nitrogen Oxide								
Coal.....	10	3	3	3	3	3	3	3
Petroleum.....	14	4	5	5	4	3	2	1
Natural Gas	97	70	57	58	58	50	55	52
Other Gases.....	4	3	3	3	3	2	2	2
Other Renewables ¹	20	16	17	20	19	24	21	20
Other ²	2	1	1	1	1	1	1	1
Total	145	98	86	91	89	82	83	80
Carbon Dioxide								
Coal.....	3,902	3,950	3,741	3,897	3,928	3,767	3,365	3,444
Petroleum.....	3,630	2,992	3,325	3,270	3,143	2,175	1,828	1,280
Natural Gas	59,579	52,539	47,270	51,879	55,382	55,912	53,564	50,012
Other Gases.....	*	*	*	*	*	1	*	*
Geothermal	316	337	335	329	334	331	330	324
Other Renewables ¹	-	-	-	-	-	-	-	173
Other ²	368	352	328	356	353	363	341	173
Total	67,797	60,170	54,999	59,732	63,140	62,549	59,428	55,406

¹ Other Renewables includes biogenic municipal solid waste, wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, and other biomass.

² Other includes non-biogenic municipal solid waste, tire-derived fuels, and miscellaneous technologies.

* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is 1 and values under 0.5 are shown as *).

- (dash) = Data not available.

Note: CO2 emissions for the historical years 1998 - 2008 have been revised due to changes in emission factors.

Sources: Calculations made by the Electric Power Systems and Reliability Team; Office of Electricity, Renewables, and Uranium Statistics; U. S. Energy Information Administration.

Table 8. Retail Sales, Revenue, and Average Retail Prices by Sector, 2000 and 2004 Through 2010

Sector	2000	2004	2005	2006	2007	2008	2009	2010	Percentage Share	
									2000	2010
California										
Retail Sales (thousand megawatthours)										
Residential	79,241	83,361	85,610	89,836	89,158	91,231	89,799	87,257	32.5	33.8
Commercial	92,697	118,953	117,551	121,255	123,690	125,026	121,105	121,152	38.0	46.9
Industrial	64,311	48,812	50,242	50,991	50,538	51,031	47,835	49,301	26.4	19.1
Other	7,808	NA	NA	NA	NA	NA	NA	NA	3.2	--
Transportation.....	NA	900	846	877	848	867	844	821	--	0.3
All Sectors	244,057	252,026	254,250	262,959	264,235	268,155	259,584	258,531	100.0	100.0
Retail Revenue (million dollars).....										
Residential	8,629	10,168	10,708	12,876	12,860	12,595	13,238	12,873	37.3	38.3
Commercial	9,502	13,846	14,007	15,636	15,854	15,677	16,251	15,865	41.1	47.2
Industrial	4,594	4,526	4,797	5,145	5,046	5,125	4,816	4,830	19.9	14.4
Other	380	NA	NA	NA	NA	NA	NA	NA	1.6	--
Transportation.....	NA	58	55	55	71	71	71	68	--	0.2
All Sectors	23,105	28,598	29,567	33,712	33,831	33,468	34,377	33,637	100.0	100.0
Average Retail Prices (cents/kWh)										
Residential	10.89	12.20	12.51	14.33	14.42	13.81	14.74	14.75	--	--
Commercial	10.25	11.64	11.92	12.90	12.82	12.54	13.42	13.10	--	--
Industrial	7.14	9.27	9.55	10.09	9.98	10.04	10.07	9.80	--	--
Other	4.87	NA	NA	NA	NA	NA	NA	NA	--	--
Transportation.....	NA	6.42	6.55	6.29	8.37	8.16	8.43	8.27	--	--
All Sectors	9.47	11.35	11.63	12.82	12.80	12.48	13.24	13.01	--	--

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

Table 9. Retail Electricity Sales Statistics, 2010

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
California								
Number of Entities.....	6	36	1	4	27	13	3	90
Number of Retail Customers	11,586,265	3,197,884	72	16,396	28	37,077	NA	14,837,722
Retail Sales (thousand megawatthours).....	177,437	59,446	2,326	290	1,449	17,577	NA	258,525
Percentage of Retail Sales	68.63	22.99	0.90	0.11	0.56	6.80	--	100.00
Revenue from Retail Sales (million dollars)	24,235	7,291	67	38	81	1,224	701	33,636
Percentage of Revenue	72.05	21.68	0.20	0.11	0.24	3.64	2.08	100.00
Average Retail Price (cents/kWh)	13.66	12.27	2.88	13.17	5.59	6.96	3.99	13.01

kWh = Kilowatthours.

NA = Not available.

-- = Not applicable.

Notes: Data are shown for All Sectors. Full Service Providers sell bundled electricity services (e.g., both energy and delivery) to end users. Full Service Providers may purchase electricity from others (such as independent Power Producers or other full service providers) prior to delivery. Other Providers sell either the energy or the delivery services, but not both. Sales volumes and customer counts shown for Other Providers refer to delivered electricity, which is a joint activity of both energy and delivery providers; for clarity, they are reported only in the Energy column in this table. The revenue shown under Other Providers represents the revenue realized from the sale of the energy and the delivery services distinctly. "Public" entities include municipalities, State power agencies, and municipal marketing authorities. Federal entities are either owned or financed by the Federal Government. "Cooperatives" are electric utilities legally established to be owned by and operated for the benefit of those using its services. The cooperative will generate, transmit and/or distribute supplies of electric energy to a specified area not being serviced by another utility. "Non-utility" sales represent direct electricity transactions from independent generators to end use consumers. Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report."

Table 10. Supply and Disposition of Electricity, 2000 and 2004 Through 2010
(Million Kilowatthours)

Category	2000	2004	2005	2006	2007	2008	2009	2010
California								
Supply								
Generation								
Electric Utilities	85,856	75,177	89,348	100,338	87,349	83,347	85,124	96,940
Independent Power Producers	78,996	75,928	68,721	76,509	82,491	85,067	80,767	69,294
Combined Heat and Power, Electric	23,410	24,567	23,459	21,399	22,342	21,535	21,009	19,582
Electric Power Sector Generation Subtotal	188,263	175,672	181,527	198,247	192,181	189,949	186,900	185,816
Combined Heat and Power, Commercial	2,104	1,918	2,151	2,118	2,131	2,100	2,244	2,300
Combined Heat and Power, Industrial	17,716	17,191	16,614	16,434	16,536	15,935	15,633	16,010
Industrial and Commercial Generation Subtotal	19,820	19,109	18,765	18,552	18,666	18,035	17,877	18,310
Total Net Generation	208,082	194,780	200,293	216,799	210,848	207,984	204,776	204,126
Total International Imports¹	5,507	1,291	5,630	2,936	5,797	5,370	3,047	3,474
Total Supply	213,590	196,071	205,923	219,735	216,645	213,354	207,823	207,599
Disposition								
Retail Sales								
Full Service Providers	221,323	225,896	228,582	239,307	243,034	248,105	240,471	239,499
Energy-Only Providers	22,735	24,625	23,406	21,223	19,618	18,662	17,036	17,577
Facility Direct Retail Sales ²	-	1,505	2,262	2,428	1,583	1,389	2,076	1,455
Total Electric Industry Retail Sales	244,057	252,026	254,250	262,959	264,235	268,155	259,584	258,531
Direct Use	14,599	15,199	11,673	14,030	9,146	13,462	10,035	10,074
Total International Exports¹	2,126	48	103	565	293	675	518	401
Estimated Losses	17,370	19,251	18,577^R	20,957	23,078	22,638	21,823	17,530
Net Interstate Trade³	-64,562	-90,453	-78,680	-78,775	-80,107	-91,577	-84,137	-78,937
Total Disposition	213,590	196,071	205,923	219,735	216,645	213,354	207,823	207,599
Net Trade Index (ratio)⁴	0.77	0.68	0.72	0.74	0.73	0.70	0.71	0.72

¹ For 2001 forward, data from the California Independent System Operator are used in combination with the Form OE-781R values to estimate electricity trade with Mexico.

² Facility Direct Retail Sales are electricity sales from non utility power producers which reported electricity sales to a retail customer.

³ Net Interstate Trade = Total Supply - (Total Electric Industry Retail Sales + Direct Use + Total International Exports (if applies) + Estimated Losses).

⁴ Net Trade Index is the sum of Total Supply / (Total Disposition - Net Interstate Trade).

R = Revised.

- (dash) = Data not available.

Notes: Totals may not equal sum of components because of independent rounding. Estimated Losses are reported at the utility level, and then allocated to States based on the utility's retail sales by State. Reported losses may include electricity unaccounted for by the utility. Direct use is commercial or industrial use of electricity that (1) is self-generated (2) is produced by either the same entity that consumes the power or an affiliate, and (3) is used in direct support of a service or industrial process located within the same facility or group of facilities that houses the generating equipment. Direct use is exclusive of station use. Beginning with publication year 2010, Total disposition has been reorganized to include Net Interstate Trade. Therefore, Total Disposition equals Total Supply.

Sources: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report" and predecessor forms. U.S. Energy Information Administration, Form EIA-860, "Annual Electric Generator Report." U.S. Energy Information Administration, Form EIA-861, "Annual Electric Power Industry Report." DOE, Office of Electricity Delivery and Energy Reliability, Form OE-781R, "Annual Report of International Electric Export/Import Data," predecessor forms, and National Energy Board of Canada.